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 <211> 22
 <212> PRT
 <213> Homo sapien

<400> 317
 Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr His Thr Arg Thr
 1 5 10 15
 His Thr Gly Lys Thr Ser
 20

<210> 318
 <211> 21
 <212> PRT
 <213> Homo sapien

<400> 318
 Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His Asn
 1 5 10 15
 Met His Gln Arg Asn
 20

<210> 319
 <211> 449
 <212> PRT
 <213> Homo sapien

	<400> 319														
Met 1	Gly	Ser	Asp	Val 5	Arg	Asp	Leu	Asn	Ala 10	Leu	Leu	Pro	Ala	Val 15	Pro
Ser	Leu	Gly	Gly 20	Gly	Gly	Gly	Cys	Ala 25	Leu	Pro	Val	Ser	Gly 30	Ala	Ala
Gln	Trp	Ala 35	Pro	Val	Leu	Asp	Phe 40	Ala	Pro	Pro	Gly	Ala 45	Ser	Ala	Tyr
Gly	Ser 50	Leu	Gly	Gly	Pro	Ala 55	Pro	Pro	Pro	Ala	Pro	Pro	Pro	Pro	Pro
Pro 65	Pro	Pro	Pro	His 70	Ser	Phe	Ile	Lys	Gln	Glu	Pro	Ser	Trp	Gly	Gly 80
Ala	Glu	Pro	His 85	Glu	Glu	Gln	Cys	Leu	Ser 90	Ala	Phe	Thr	Val	His	Phe
Ser	Gly	Gln	Phe 100	Thr	Gly	Thr	Ala	Gly 105	Ala	Cys	Arg	Tyr	Gly	Pro	Phe
Gly	Pro	Pro 115	Pro	Pro	Ser	Gln	Ala 120	Ser	Ser	Gly	Gln	Ala 125	Arg	Met	Phe
Pro	Asn 130	Ala	Pro	Tyr	Leu	Pro 135	Ser	Cys	Leu	Glu	Ser	Gln	Pro	Ala	Ile
Arg 145	Asn	Gln	Gly	Tyr 150	Ser	Thr	Val	Thr	Phe	Asp	Gly	Thr	Pro	Ser	Tyr 160
Gly	His	Thr	Pro	Ser 165	His	His	Ala	Ala	Gln	Phe	Pro	Asn	His	Ser	Phe 175
Lys	His	Glu	Asp 180	Pro	Met	Gly	Gln	Gln	Gly	Ser	Leu	Gly	Glu	Gln	Gln 190
Tyr	Ser	Val 195	Pro	Pro	Pro	Val	Tyr	Gly	Cys	His	Thr	Pro	Thr	Asp	Ser 205
Cys	Thr 210	Gly	Ser	Gln	Ala	Leu	Leu	Leu	Arg	Thr	Pro	Tyr	Ser	Ser	Asp 220
Asn 225	Leu	Tyr	Gln	Met	Thr	Ser	Gln	Leu	Glu	Cys	Met	Thr	Trp	Asn	Gln 240
Met	Asn	Leu	Gly 245	Ala	Thr	Leu	Lys	Gly	Val	Ala	Ala	Gly	Ser	Ser	Ser 255
Ser	Val	Lys 260	Trp	Thr	Glu	Gly	Gln	Ser	Asn	His	Ser	Thr	Gly	Tyr	Glu 270
Ser	Asp	Asn 275	His	Thr	Thr	Pro	Ile	Leu	Cys	Gly	Ala	Gln	Tyr	Arg	Ile 285
His	Thr 290	His	Gly	Val	Phe	Arg	Gly	Ile	Gln	Asp	Val	Arg	Arg	Val	Pro 300
Gly 305	Val	Ala	Pro	Thr	Leu	Val	Arg	Ser	Ala	Ser	Glu	Thr	Ser	Glu	Lys 320
Arg	Pro	Phe	Met	Cys 325	Ala	Tyr	Pro	Gly	Cys	Asn	Lys	Arg	Tyr	Phe	Lys 335
Leu	Ser	His	Leu 340	Gln	Met	His	Ser	Arg	Lys	His	Thr	Gly	Glu	Lys	Pro 350
Tyr	Gln	Cys 355	Asp	Phe	Lys	Asp	Cys	Glu	Arg	Arg	Phe	Ser	Arg	Ser	Asp 365
Gln	Leu 370	Lys	Arg	His	Gln	Arg	Arg	His	Thr	Gly	Val	Lys	Pro	Phe	Gln 380
Cys 385	Lys	Thr	Cys	Gln	Arg	Lys	Phe	Ser	Arg	Ser	Asp	His	Leu	Lys	Thr 400
His	Thr	Arg	Thr	His 405	Thr	Gly	Lys	Thr	Ser	Glu	Lys	Pro	Phe	Ser	Cys 415
Arg	Trp	Pro	Ser	Cys	Gln	Lys	Lys	Phe	Ala	Arg	Ser	Asp	Glu	Leu	Val 420

420 425 430
 Arg His His Asn Met His Gln Arg Asn Met Thr Lys Leu Gln Leu Ala
 435 440 445
 Leu

<210> 320
 <211> 449
 <212> PRT
 <213> Mus musculus

<400> 320
 Met Gly Ser Asp Val Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Ser
 1 5 10 15
 Ser Leu Gly Gly Gly Gly Gly Cys Gly Leu Pro Val Ser Gly Ala Ala
 20 25 30
 Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr
 35 40 45
 Gly Ser Leu Gly Gly Pro Ala Pro Pro Pro Ala Pro Pro Pro Pro Pro
 50 55 60
 Pro Pro Pro Pro His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly
 65 70 75 80
 Ala Glu Pro His Glu Glu Gln Cys Leu Ser Ala Phe Thr Leu His Phe
 85 90 95
 Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe
 100 105 110
 Gly Pro Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe
 115 120 125
 Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Thr Ile
 130 135 140
 Arg Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp Gly Ala Pro Ser Tyr
 145 150 155 160
 Gly His Thr Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe
 165 170 175
 Lys His Glu Asp Pro Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln
 180 185 190
 Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser
 195 200 205
 Cys Thr Gly Ser Gln Ala Leu Leu Leu Arg Thr Pro Tyr Ser Ser Asp
 210 215 220
 Asn Leu Tyr Gln Met Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln
 225 230 235 240
 Met Asn Leu Gly Ala Thr Leu Lys Gly Met Ala Ala Gly Ser Ser Ser
 245 250 255
 Ser Val Lys Trp Thr Glu Gly Gln Ser Asn His Gly Ile Gly Tyr Glu
 260 265 270
 Ser Asp Asn His Thr Ala Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile
 275 280 285
 His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg Arg Val Ser
 290 295 300
 Gly Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr Ser Glu Lys
 305 310 315 320
 Arg Pro Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg Tyr Phe Lys
 325 330 335

Leu Ser His Leu Gln Met His Ser Arg Lys His Thr Gly Glu Lys Pro
 340 345 350
 Tyr Gln Cys Asp Phe Lys Asp Cys Glu Arg Arg Phe Ser Arg Ser Asp
 355 360 365
 Gln Leu Lys Arg His Gln Arg Arg His Thr Gly Val Lys Pro Phe Gln
 370 375 380
 Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr
 385 390 395 400
 His Thr Arg Thr His Thr Gly Lys Thr Ser Glu Lys Pro Phe Ser Cys
 405 410 415
 Arg Trp His Ser Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val
 420 425 430
 Arg His His Asn Met His Gln Arg Asn Met Thr Lys Leu His Val Ala
 435 440 445
 Leu

<210> 321
 <211> 9
 <212> PRT
 <213> Homo sapien and Mus musculus

<400> 321
 Pro Ser Gln Ala Ser Ser Gly Gln Ala
 1 5

<210> 322
 <211> 9
 <212> PRT
 <213> Homo sapien and Mus musculus

<400> 322
 Ser Ser Gly Gln Ala Arg Met Phe Pro
 1 5

<210> 323
 <211> 9
 <212> PRT
 <213> Homo sapien and Mus musculus

<400> 323
 Gln Ala Arg Met Phe Pro Asn Ala Pro
 1 5

<210> 324
 <211> 9
 <212> PRT
 <213> Homo sapien and Mus musculus

<400> 324
 Met Phe Pro Asn Ala Pro Tyr Leu Pro
 1 5

<210> 325

<211> 9
 <212> PRT
 <213> Homo sapien and Mus musculus

<400> 325
 Pro Asn Ala Pro Tyr Leu Pro Ser Cys
 1 5

<210> 326
 <211> 9
 <212> PRT
 <213> Homo sapien and Mus musculus

<400> 326
 Ala Pro Tyr Leu Pro Ser Cys Leu Glu
 1 5

<210> 327
 <211> 1029
 <212> DNA
 <213> Homo sapiens

<400> 327
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 tttgacacgg atgtactcaa agcggacggg gcgatcctcg tcgatttctg ggcagagtgg 120
 tgcggtccgt gcaaaatgat cgccccgatt ctggatgaaa tcgctgacga atatcagggc 180
 aaactgaccg ttgcaaaact gaacatcgat caaaaccctg gcactgcgcc gaaatatggc 240
 atccgtggta tcccgaactct gctgctgttc aaaaacggtg aagtggcggc aaccaaagtg 300
 ggtgcaactgt ctaaagggtca gttgaaagag ttctctcgacg ctaacctggc cggttctggt 360
 tctggccata tgcagcatca ccaccatcac cagctgtcta tcgaaggctg tgctagctct 420
 ggtggcagcg gtctggttcc gcgtggtagc tctggttcgg gggacgacga cgacaaatct 480
 agtaggcaca gcacagggtc cgagagcgat aaccacacaa cgccatcct ctgcggagcc 540
 caatacagaa tacacacgca cgggtgtctc agaggcattc aggatgtgag acgtgtgcct 600
 ggagtagccc cgactcttgt acggtcggca tctgagacca gtgagaaacg ccccttcatg 660
 tgtgcttacc caggctgcaa taagagatat tttaagctgt cccacttaca gatgcacagc 720
 aggaagcaca ctggtgagaa accataccag tgtgacttca aggactgtga acgaagggtt 780
 tttcgttcag accagctcaa aagacaccaa aggagacata cagggtgtgaa accattccag 840
 tgtaaaactt gtcagcgaaa gttctcccg gtcgaccacc tgaagaccca caccaggact 900
 catacaggtg aaaagccctt cagctgtcgg tggccaagtt gtcagaaaaa gtttgcccg 960
 tcagatgaat tagtccgcca tcacaacatg catcagagaa acatgaccaa actccagctg 1020
 gcgctttga 1029

<210> 328
 <211> 1233
 <212> DNA
 <213> Homo sapiens

<400> 328
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 tttgacacgg atgtactcaa agcggacggg gcgatcctcg tcgatttctg ggcagagtgg 120
 tgcggtccgt gcaaaatgat cgccccgatt ctggatgaaa tcgctgacga atatcagggc 180
 aaactgaccg ttgcaaaact gaacatcgat caaaaccctg gcactgcgcc gaaatatggc 240
 atccgtggta tcccgaactct gctgctgttc aaaaacggtg aagtggcggc aaccaaagtg 300

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ggtgcactgt ctaaagggtca gttgaaagag ttcctcgacg ctaacctggc cggtttctggt 360
tctggccata tgcagcatca ccaccatcac cacgtgtcta tcgaagggtcg tgctagctct 420
ggtggcagcg gtctggttcc gcgtggtagc tctgggttcgg gggacgacga cgacaaatct 480
agtaggggct ccgacgttcg tgacctgaac gcactgctgc cggcagttcc gtccctgggt 540
ggtggtggtg gttgcgcaact gccggttagc ggtgcagcac agtgggctcc ggttctggac 600
ttcgcaccgc cgggtgcatc cgcatacggg tccctgggtg gtccggcacc gccgccggca 660
ccgccgccgc cggccgccgc gccgccgcac tccctcatca aacaggaacc gagctggggt 720
ggtgcagaac cgcacgaaga acagtgcctg agcgcattca ccgttcaact ctccggccag 780
ttcactggca cagccggagc ctgtcgctac gggcccttcg gtccctcctcc gccagccag 840
gcgtcatccg gccaggccag gatgtttcct aacgcgccct acctgccag ctgcctcgag 900
agccagcccc ctattcgcaa tcagggttac agcacgggtc ctttcgacgg gacgcccagc 960
tacggtcaca cgccttcgca ccatgcggcg cagttcccca accactcatt caagcatgag 1020
gatcccatgg gccagcaggg ctcgctgggt gagcagcagt actcgggtgcc gccccgggtc 1080
tatggctgcc acacccccac cgacagctgc accggcagcc aggttttgc gctgaggacg 1140
ccctacagca gtgacaattt ataccaaatg acatcccagc ttgaatgcat gacctggaat 1200
cagatgaact taggagccac cttaaagggc tga 1233

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<210> 329

<211> 1776

<212> DNA

<213> Homo sapiens

<400> 329

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atgcagcatc accaccatca ccacatgagc gataaaatta ttcacctgac tgacgacagt 60
tttgacacgg atgtactcaa agcggacggg gcgatcctcg tcgatttctg ggcagagtgg 120
tgcggtccgt gcaaaatgat cgcgccgatt ctggatgaaa tcgctgacga atatcagggc 180
aaactgaccg ttgcaaaact gaacatcgat caaaacctg gcactgcgcc gaaatatggc 240
atccgtggta tcccgaactct gctgctgttc aaaaacggtg aagtggcggc aaccaaagt 300
ggtgcactgt ctaaagggtca gttgaaagag ttcctcgacg ctaacctggc cggtttctggt 360
tctggccata tgcagcatca ccaccatcac cacgtgtcta tcgaagggtcg tgctagctct 420
ggtggcagcg gtctggttcc gcgtggtagc tctgggttcgg gggacgacga cgacaaatct 480
agtaggtagg gctccgacgt tcgtgacctg aacgcactgc tgccggcagt tccgtccctg 540
ggtggtggtg gtggttgccg actgccggtt agcgggtgcag cacagtgggc tccggttctg 600
gacttcgcac cgcggggtgc atccgcatac ggttccctgg gtggtccggc accgccggcg 660
gcaccgccgc cgcggccgcc gccgccgccg cactccttca tcaaacagga accgagctgg 720
ggtggtgcag aaccgcacga agaacagtgc ctgagcgcat tcaccgttca cttctccggc 780
cagttcaactg gcacagccgg agcctgtcgc tacgggccct tcggtcctcc tccgccagc 840
caggcgtcat ccggccaggc caggatgttt cctaaccgcg cctacctgcc cagctgcctc 900
gagagccagc ccgctattcg caatcagggt tacagcacgg tcaccttcga cgggacgccc 960
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aatcagatga acttaggagc caccttaaa ggcacagca cagggtacga gagcgataac 1260
cacacaacgc ccatcctctg cggagcccaa tacagaatac acacgcacgg tgtcttcaga 1320
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gagaccagtg agaaacgccc cttcatgtgt gcttaccag gctgcaataa gagatatatt 1440
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gacttcaagg actgtgaacg aagggttttt cgttcagacc agctcaaaag acaccaag 1560
agacatacag gtgtgaaacc attccagtgt aaaacttggt agcgaaagtt ctcccggtcc 1620
gaccacctga agaccacac caggactcat acagggtgaa agcccttcag ctgtcgggtg 1680
ccaagttgtc agaaaaagtt tgcccggtca gatgaattag tccgccatca caacatgcat 1740
cagagaaaca tgaccaaact ccagctggcg ctttga 1776

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<210> 330
 <211> 771
 <212> DNA
 <213> Homo sapiens

<400> 330
 atgcagcatc accaccatca ccacggctcc gacgttcgtg acctgaacgc actgctgccg 60
 gcagttccgt ccctgggtgg tgggtgggtg tgcgcactgc cggtttagcgg tgcagcacag 120
 tgggctccgg ttctggactt cgcaccgccg ggtgcatccg catacggttc cctgggtggg 180
 ccggcaccgc cgcgggcacc gccgcgccg ccgcgcgccg cgcgcgactc cttcatcaaa 240
 caggaaccga gctgggggtg tgcagaaccg cacgaagaac agtgccctgag cgcattcacc 300
 gttcactttc cgggccagtt cactggcaca gccggagcct gtcgctacgg gcccttcggg 360
 cctcctccgc ccagccaggc gtcacccggc caggccagga tgtttcctaa cgcgccctac 420
 ctgcccagct gcctcgagag ccagcccgtt attcgcaatc agggttacag cacgggtcacc 480
 ttcgacggga cgcgccagta cgggtcacac ccctcgacc atgcgggcga gttccccaac 540
 cactcattca agcatgagga tcccatgggc cagcagggct cgctgggtga gcagcagtac 600
 tcggtgcgcg ccccggtcta tggctgccac acccccaccg acagctgcac cggcagccag 660
 gctttgctgc tgaggacgcc ctacagcagt gacaatttat accaaatgac atcccagctt 720
 gaatgcatga cctggaatca gatgaactta ggagccacct taaagggctg a 771

<210> 331
 <211> 567
 <212> DNA
 <213> Homo sapiens

<400> 331
 atgcagcatc accaccatca ccaccacagc acagggtagc agagcgataa ccacacaacg 60
 cccatcctct ggggagccca atacagaata cacacgcacg gtgtcttcag aggcattcag 120
 gatgtgcgac gtgtgcctgg agtagccccg actcttgtac ggtcggcatc tgagaccagt 180
 gagaaacgcc ccttcatgtg tgcttaccca ggctgcaata agagatattt taagctgtcc 240
 cacttacaga tgcacagcag gaagcacact ggtgagaaac cataccagtg tgacttcaag 300
 gactgtgaac gaagggtttt tcgttcagac cagctcaaaa gacaccaaag gagacataca 360
 ggtgtgaaac cattccagtg taaaacttgt cagcgaaagt tctcccggtc cgaccacctg 420
 aagaccacac ccaggactca tacaggtgaa aagcccttca gctgtcgggt gccaaagttgt 480
 cagaaaaagt ttgcccggtc agatgaatta gtccgccatc acaacatgca tcagagaaac 540
 atgaccaaac tccagctggc gctttga 567

<210> 332
 <211> 342
 <212> PRT
 <213> Homo sapiens

<400> 332
 Met Gln His His His His His Met Ser Asp Lys Ile Ile His Leu
 5 10 15
 Thr Asp Asp Ser Phe Asp Thr Asp Val Leu Lys Ala Asp Gly Ala Ile
 20 25 30
 Leu Val Asp Phe Trp Ala Glu Trp Cys Gly Pro Cys Lys Met Ile Ala
 35 40 45
 Pro Ile Leu Asp Glu Ile Ala Asp Glu Tyr Gln Gly Lys Leu Thr Val
 50 55 60

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Ala Lys Leu Asn Ile Asp Gln Asn Pro Gly Thr Ala Pro Lys Tyr Gly
 65          70          75          80
Ile Arg Gly Ile Pro Thr Leu Leu Leu Phe Lys Asn Gly Glu Val Ala
          85          90          95
Ala Thr Lys Val Gly Ala Leu Ser Lys Gly Gln Leu Lys Glu Phe Leu
          100          105          110
Asp Ala Asn Leu Ala Gly Ser Gly Ser Gly His Met Gln His His His
          115          120          125
His His His Val Ser Ile Glu Gly Arg Ala Ser Ser Gly Gly Ser Gly
          130          135          140
Leu Val Pro Arg Gly Ser Ser Gly Ser Gly Asp Asp Asp Asp Lys Ser
145          150          155          160
Ser Arg His Ser Thr Gly Tyr Glu Ser Asp Asn His Thr Thr Pro Ile
          165          170          175
Leu Cys Gly Ala Gln Tyr Arg Ile His Thr His Gly Val Phe Arg Gly
          180          185          190
Ile Gln Asp Val Arg Arg Val Pro Gly Val Ala Pro Thr Leu Val Arg
          195          200          205
Ser Ala Ser Glu Thr Ser Glu Lys Arg Pro Phe Met Cys Ala Tyr Pro
          210          215          220
Gly Cys Asn Lys Arg Tyr Phe Lys Leu Ser His Leu Gln Met His Ser
225          230          235          240
Arg Lys His Thr Gly Glu Lys Pro Tyr Gln Cys Asp Phe Lys Asp Cys
          245          250          255
Glu Arg Arg Phe Phe Arg Ser Asp Gln Leu Lys Arg His Gln Arg Arg
          260          265          270
His Thr Gly Val Lys Pro Phe Gln Cys Lys Thr Cys Gln Arg Lys Phe
          275          280          285
Ser Arg Ser Asp His Leu Lys Thr His Thr Arg Thr His Thr Gly Glu
          290          295          300
Lys Pro Phe Ser Cys Arg Trp Pro Ser Cys Gln Lys Lys Phe Ala Arg
305          310          315          320
Ser Asp Glu Leu Val Arg His His Asn Met His Gln Arg Asn Met Thr
          325          330          335
Lys Leu Gln Leu Ala Leu
          340

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<210> 333
<211> 410
<212> PRT
<213> Homo sapiens

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<400> 333
Met Gln His His His His His His Met Ser Asp Lys Ile Ile His Leu
          5          10          15
Thr Asp Asp Ser Phe Asp Thr Asp Val Leu Lys Ala Asp Gly Ala Ile
          20          25          30
Leu Val Asp Phe Trp Ala Glu Trp Cys Gly Pro Cys Lys Met Ile Ala
          35          40          45
Pro Ile Leu Asp Glu Ile Ala Asp Glu Tyr Gln Gly Lys Leu Thr Val
          50          55          60
Ala Lys Leu Asn Ile Asp Gln Asn Pro Gly Thr Ala Pro Lys Tyr Gly

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65					70					75					80
Ile	Arg	Gly	Ile	Pro	Thr	Leu	Leu	Leu	Phe	Lys	Asn	Gly	Glu	Val	Ala
				85					90					95	
Ala	Thr	Lys	Val	Gly	Ala	Leu	Ser	Lys	Gly	Gln	Leu	Lys	Glu	Phe	Leu
			100					105					110		
Asp	Ala	Asn	Leu	Ala	Gly	Ser	Gly	Ser	Gly	His	Met	Gln	His	His	His
		115					120					125			
His	His	His	Val	Ser	Ile	Glu	Gly	Arg	Ala	Ser	Ser	Gly	Gly	Ser	Gly
		130				135					140				
Leu	Val	Pro	Arg	Gly	Ser	Ser	Gly	Ser	Gly	Asp	Asp	Asp	Asp	Lys	Ser
145				150						155					160
Ser	Arg	Gly	Ser	Asp	Val	Arg	Asp	Leu	Asn	Ala	Leu	Leu	Pro	Ala	Val
			165						170					175	
Pro	Ser	Leu	Gly	Gly	Gly	Gly	Gly	Cys	Ala	Leu	Pro	Val	Ser	Gly	Ala
		180						185					190		
Ala	Gln	Trp	Ala	Pro	Val	Leu	Asp	Phe	Ala	Pro	Pro	Gly	Ala	Ser	Ala
		195					200					205			
Tyr	Gly	Ser	Leu	Gly	Gly	Pro	Ala	Pro	Pro	Pro	Ala	Pro	Pro	Pro	Pro
	210					215					220				
Pro	Pro	Pro	Pro	Pro	His	Ser	Phe	Ile	Lys	Gln	Glu	Pro	Ser	Trp	Gly
225					230					235					240
Gly	Ala	Glu	Pro	His	Glu	Glu	Gln	Cys	Leu	Ser	Ala	Phe	Thr	Val	His
			245					250						255	
Phe	Ser	Gly	Gln	Phe	Thr	Gly	Thr	Ala	Gly	Ala	Cys	Arg	Tyr	Gly	Pro
		260					265						270		
Phe	Gly	Pro	Pro	Pro	Pro	Ser	Gln	Ala	Ser	Ser	Gly	Gln	Ala	Arg	Met
	275					280						285			
Phe	Pro	Asn	Ala	Pro	Tyr	Leu	Pro	Ser	Cys	Leu	Glu	Ser	Gln	Pro	Ala
	290					295					300				
Ile	Arg	Asn	Gln	Gly	Tyr	Ser	Thr	Val	Thr	Phe	Asp	Gly	Thr	Pro	Ser
305				310						315					320
Tyr	Gly	His	Thr	Pro	Ser	His	His	Ala	Ala	Gln	Phe	Pro	Asn	His	Ser
			325						330					335	
Phe	Lys	His	Glu	Asp	Pro	Met	Gly	Gln	Gln	Gly	Ser	Leu	Gly	Glu	Gln
		340					345						350		
Gln	Tyr	Ser	Val	Pro	Pro	Pro	Val	Tyr	Gly	Cys	His	Thr	Pro	Thr	Asp
	355						360					365			
Ser	Cys	Thr	Gly	Ser	Gln	Ala	Leu	Leu	Leu	Arg	Thr	Pro	Tyr	Ser	Ser
	370				375					380					
Asp	Asn	Leu	Tyr	Gln	Met	Thr	Ser	Gln	Leu	Glu	Cys	Met	Thr	Trp	Asn
385				390					395						400
Gln	Met	Asn	Leu	Gly	Ala	Thr	Leu	Lys	Gly						
			405						410						

<210> 334

<211> 591

<212> PRT

<213> Homo sapiens

<400> 334

Met	Gln	His	His	His	His	His	His	Met	Ser	Asp	Lys	Ile	Ile	His	Leu
			5						10					15	
Thr	Asp	Asp	Ser	Phe	Asp	Thr	Asp	Val	Leu	Lys	Ala	Asp	Gly	Ala	Ile

				20				25					30		
Leu	Val	Asp	Phe	Trp	Ala	Glu	Trp	Cys	Gly	Pro	Cys	Lys	Met	Ile	Ala
		35					40					45			
Pro	Ile	Leu	Asp	Glu	Ile	Ala	Asp	Glu	Tyr	Gln	Gly	Lys	Leu	Thr	Val
	50					55					60				
Ala	Lys	Leu	Asn	Ile	Asp	Gln	Asn	Pro	Gly	Thr	Ala	Pro	Lys	Tyr	Gly
	65				70					75					80
Ile	Arg	Gly	Ile	Pro	Thr	Leu	Leu	Leu	Phe	Lys	Asn	Gly	Glu	Val	Ala
				85					90					95	
Ala	Thr	Lys	Val	Gly	Ala	Leu	Ser	Lys	Gly	Gln	Leu	Lys	Glu	Phe	Leu
			100					105					110		
Asp	Ala	Asn	Leu	Ala	Gly	Ser	Gly	Ser	Gly	His	Met	Gln	His	His	His
		115					120					125			
His	His	His	Val	Ser	Ile	Glu	Gly	Arg	Ala	Ser	Ser	Gly	Gly	Ser	Gly
	130					135					140				
Leu	Val	Pro	Arg	Gly	Ser	Ser	Gly	Ser	Gly	Asp	Asp	Asp	Asp	Lys	Ser
145					150					155					160
Ser	Arg	Met	Gly	Ser	Asp	Val	Arg	Asp	Leu	Asn	Ala	Leu	Leu	Pro	Ala
				165					170					175	
Val	Pro	Ser	Leu	Gly	Gly	Gly	Gly	Gly	Cys	Ala	Leu	Pro	Val	Ser	Gly
			180					185					190		
Ala	Ala	Gln	Trp	Ala	Pro	Val	Leu	Asp	Phe	Ala	Pro	Pro	Gly	Ala	Ser
		195					200					205			
Ala	Tyr	Gly	Ser	Leu	Gly	Gly	Pro	Ala	Pro	Pro	Pro	Ala	Pro	Pro	Pro
	210					215					220				
Pro	Pro	Pro	Pro	Pro	Pro	His	Ser	Phe	Ile	Lys	Gln	Glu	Pro	Ser	Trp
225					230					235					240
Gly	Gly	Ala	Glu	Pro	His	Glu	Glu	Gln	Cys	Leu	Ser	Ala	Phe	Thr	Val
				245					250					255	
His	Phe	Ser	Gly	Gln	Phe	Thr	Gly	Thr	Ala	Gly	Ala	Cys	Arg	Tyr	Gly
			260					265					270		
Pro	Phe	Gly	Pro	Pro	Pro	Pro	Ser	Gln	Ala	Ser	Ser	Gly	Gln	Ala	Arg
		275					280					285			
Met	Phe	Pro	Asn	Ala	Pro	Tyr	Leu	Pro	Ser	Cys	Leu	Glu	Ser	Gln	Pro
	290					295					300				
Ala	Ile	Arg	Asn	Gln	Gly	Tyr	Ser	Thr	Val	Thr	Phe	Asp	Gly	Thr	Pro
305					310					315					320
Ser	Tyr	Gly	His	Thr	Pro	Ser	His	His	Ala	Ala	Gln	Phe	Pro	Asn	His
				325					330					335	
Ser	Phe	Lys	His	Glu	Asp	Pro	Met	Gly	Gln	Gln	Gly	Ser	Leu	Gly	Glu
			340					345					350		
Gln	Gln	Tyr	Ser	Val	Pro	Pro	Pro	Val	Tyr	Gly	Cys	His	Thr	Pro	Thr
		355					360					365			
Asp	Ser	Cys	Thr	Gly	Ser	Gln	Ala	Leu	Leu	Leu	Arg	Thr	Pro	Tyr	Ser
	370					375			</						

450		455		460
Lys Arg Pro Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg Tyr Phe				
465		470		480
Lys Leu Ser His Leu Gln Met His Ser Arg Lys His Thr Gly Glu Lys				
	485		490	495
Pro Tyr Gln Cys Asp Phe Lys Asp Cys Glu Arg Arg Phe Phe Arg Ser				
	500		505	510
Asp Gln Leu Lys Arg His Gln Arg Arg His Thr Gly Val Lys Pro Phe				
	515		520	525
Gln Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys				
	530		535	540
Thr His Thr Arg Thr His Thr Gly Glu Lys Pro Phe Ser Cys Arg Trp				
545		550		560
Pro Ser Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His				
	565		570	575
His Asn Met His Gln Arg Asn Met Thr Lys Leu Gln Leu Ala Leu				
	580		585	590

<210> 335
 <211> 256
 <212> PRT
 <213> Homo sapiens

<400> 335

Met Gln His His His His His His Gly Ser Asp Val Arg Asp Leu Asn				
	5		10	15
Ala Leu Leu Pro Ala Val Pro Ser Leu Gly Gly Gly Gly Gly Cys Ala				
	20		25	30
Leu Pro Val Ser Gly Ala Ala Gln Trp Ala Pro Val Leu Asp Phe Ala				
	35		40	45
Pro Pro Gly Ala Ser Ala Tyr Gly Ser Leu Gly Gly Pro Ala Pro Pro				
	50		55	60
Pro Ala Pro Pro Pro Pro Pro Pro Pro Pro Pro His Ser Phe Ile Lys				
	65		70	75
Gln Glu Pro Ser Trp Gly Gly Ala Glu Pro His Glu Glu Gln Cys Leu				
	85		90	95
Ser Ala Phe Thr Val His Phe Ser Gly Gln Phe Thr Gly Thr Ala Gly				
	100		105	110
Ala Cys Arg Tyr Gly Pro Phe Gly Pro Pro Pro Pro Ser Gln Ala Ser				
	115		120	125
Ser Gly Gln Ala Arg Met Phe Pro Asn Ala Pro Tyr Leu Pro Ser Cys				
	130		135	140
Leu Glu Ser Gln Pro Ala Ile Arg Asn Gln Gly Tyr Ser Thr Val Thr				
	145		150	155
Phe Asp Gly Thr Pro Ser Tyr Gly His Thr Pro Ser His His Ala Ala				
	165		170	175
Gln Phe Pro Asn His Ser Phe Lys His Glu Asp Pro Met Gly Gln Gln				
	180		185	190
Gly Ser Leu Gly Glu Gln Gln Tyr Ser Val Pro Pro Pro Val Tyr Gly				
	195		200	205
Cys His Thr Pro Thr Asp Ser Cys Thr Gly Ser Gln Ala Leu Leu Leu				
	210		215	220

Arg Thr Pro Tyr Ser Ser Asp Asn Leu Tyr Gln Met Thr Ser Gln Leu
 225 230 235 240
 Glu Cys Met Thr Trp Asn Gln Met Asn Leu Gly Ala Thr Leu Lys Gly
 245 250 255

<210> 336
 <211> 188
 <212> PRT
 <213> Homo sapiens

<400> 336
 Met Gln His His His His His His His Ser Thr Gly Tyr Glu Ser Asp
 5 10 15
 Asn His Thr Thr Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile His Thr
 20 25 30
 His Gly Val Phe Arg Gly Ile Gln Asp Val Arg Arg Val Pro Gly Val
 35 40 45
 Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr Ser Glu Lys Arg Pro
 50 55 60
 Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg Tyr Phe Lys Leu Ser
 65 70 75 80
 His Leu Gln Met His Ser Arg Lys His Thr Gly Glu Lys Pro Tyr Gln
 85 90 95
 Cys Asp Phe Lys Asp Cys Glu Arg Arg Phe Phe Arg Ser Asp Gln Leu
 100 105 110
 Lys Arg His Gln Arg Arg His Thr Gly Val Lys Pro Phe Gln Cys Lys
 115 120 125
 Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr His Thr
 130 135 140
 Arg Thr His Thr Gly Glu Lys Pro Phe Ser Cys Arg Trp Pro Ser Cys
 145 150 155 160
 Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His Asn Met
 165 170 175
 His Gln Arg Asn Met Thr Lys Leu Gln Leu Ala Leu
 180 185

<210> 337
 <211> 324
 <212> DNA
 <213> Homo sapiens

<400> 337
 atgcagcattc accaccatca ccacgggttcc gacgtgcggg acctgaacgc actgctgccg 60
 gcagttccat ccctgggtgg cgggtggaggc tgcgcactgc cggttagcgg tgcagcacag 120
 tgggctccag ttctggactt cgcaccgcct ggtgcatccg catacgggtc cctgggtggt 180
 ccagcacctc cgcccgcaac gccccaccg cctccaccgc ccccgcaact cttcatcaaa 240
 caggaaccta gctgggggtgg tgcagaaccg cacgaagaac agtgccctgag cgcattctga 300
 gaattctgca gatatccatc acac 324

<210> 338
 <211> 462
 <212> DNA
 <213> Homo sapiens

<400> 338

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atgcagcatc accaccatca ccaccacgaa gaacagtgcc tgagcgcatt caccgttcac 60
ttctccggcc agttcactgg cacagccgga gcctgtcgct acgggccctt cggctcctct 120
ccgcccagcc aggcgtcatc cggccaggcc aggatgtttc ctaacgcgcc ctacctgccc 180
agctgcctcg agagccagcc cgctattcgc aatcagggtt acagcacggt caccttcgac 240
gggacgcccc gctacgggtc cacgcctcgc caccatgcgg cgcagttccc caaccactca 300
ttcaagcatg aggatcccat gggccagcag ggctcgctgg gtgagcagca gtactcggtg 360
ccgcccccgg tctatggctg ccacaccccc accgacagct gcaccggcag ccaggctttg 420
ctgctgagga cgccctacag cagtgcacaat ttatactgat ga 462

```

<210> 339

<211> 405

<212> DNA

<213> Homo sapiens

<400> 339

```

atgcagcatc accaccatca ccaccagggt ttgctgctga ggacgcccta cagcagtgac 60
aatttatacc aaatgacatc ccagcttgaa tgcattgacct ggaatcagat gaacttagga 120
gccaccttaa agggccacag cacagggtac gagagcgata accacacaac gcccatcctc 180
tgccgagccc aatacagaat acacacgcac ggtgtcttca gaggcattca ggatgtgcga 240
cgtgtgcctg gagtagcccc gactcttgta cggtcggcat ctgagaccag tgagaaacgc 300
cccttcatgt gtgcttacct aggtcgcaat aagagatatt ttaagctgtc ccacttacag 360
atgcacagca ggaagcacac tggtgagaaa ccataccagt gatga 405

```

<210> 340

<211> 339

<212> DNA

<213> Homo sapiens

<400> 340

```

atgcagcatc accaccatca ccaccacagc aggaagcaca ctggtgagaa accataccag 60
tgtgacttca aggactgtga acgaagggtt ttctgttcag accagctcaa aagacaccaa 120
aggagacata cagggtgtgaa accattccag tgtaaaactt gtcagcgaaa gttctcccg 180
tccgaccacc tgaagaccca caccaggact catacagggtg aaaagccctt cagctgtcgg 240
tggccaagtt gtcagaaaaa gtttgcccgg tcagatgaat tagtcgcga tcacaacatg 300
catcagagaa acatgaccaa actccagctg gcgctttga 339

```

<210> 341

<211> 1110

<212> DNA

<213> Homo sapiens

<400> 341

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atgcagcatc accaccatca ccaccactcc ttcattcaaac aggaaccgag ctggggtggt 60
gcagaaccgc acgaagaaca gtgcctgagc gcattcaccc ttacttctc cggccagttc 120
actggcacag ccggagcctg tcgctacggg cccttcggtc ctctccgcc cagccaggcg 180
tcattccggc aggcaggat gtttcctaac gcgccctacc tgcccagctg cctcgagagc 240
cagcccgtca ttcgcaatca gggttacagc acggtcacct tcgacgggac gccagctac 300
ggtcacacgc cctcgcacca tgcggcgagc tcccccaacc actcattcaa gcatgaggat 360
cccatgggcc agcagggtc gctgggtgag cagcagtact cggtgccgcc cccgggtctat 420
ggctgccaca cccccaccga cagctgcacc ggcagccagg ctttgctgct gaggacgccc 480

```

```

tacagcagtg acaatttata ccaaattgaca tcccagcttg aatgcatgac ctggaatcag 540
atgaacttag gagccacctt aaagggccac agcacagggt acgagagcga taaccacaca 600
acgcccattcc tctgcgaggc ccaatacaga atacacacgc acggtgtctt cagaggcatt 660
caggatgtgc gacgtgtgcc tggagtagcc ccgactcttg tacggtcggc atctgagacc 720
agtgagaaac gccccttcat gtgtgcttac ccaggctgca ataagagata ttttaagctg 780
tcccacttac agatgcacag caggaagcac actggtgaga aaccatacca gtgtgacttc 840
aaggactgtg aacgaagggt ttttcgttca gaccagctca aaagacacca aaggagacat 900
acaggtgtga aaccattcca gtgtaaaact tgtcagcgaa agttctcccg gtccgaccac 960
ctgaagaccc acaccaggac tcatacaggt gaaaagccct tcagctgtcg gtggccaagt 1020
tgtcagaaaa agtttgcccg gtcagatgaa ttagtccgcc atcacaacat gcatcagaga 1080
aacatgacca aactccagct ggcgctttga 1110

```

<210> 342
 <211> 99
 <212> PRT
 <213> Homo sapiens

```

<400> 342
Met Gln His His His His His His Gly Ser Asp Val Arg Asp Leu Asn
              5              10              15
Ala Leu Leu Pro Ala Val Pro Ser Leu Gly Gly Gly Gly Gly Cys Ala
              20              25              30
Leu Pro Val Ser Gly Ala Ala Gln Trp Ala Pro Val Leu Asp Phe Ala
              35              40              45
Pro Pro Gly Ala Ser Ala Tyr Gly Ser Leu Gly Gly Pro Ala Pro Pro
              50              55              60
Pro Ala Pro Pro Pro Pro Pro Pro Pro Pro Pro His Ser Phe Ile Lys
              65              70              75              80
Gln Glu Pro Ser Trp Gly Gly Ala Glu Pro His Glu Glu Gln Cys Leu
              85              90              95
Ser Ala Phe

```

<210> 343
 <211> 152
 <212> PRT
 <213> Homo sapiens

```

<400> 343
Met Gln His His His His His His His Glu Glu Gln Cys Leu Ser Ala
              5              10              15
Phe Thr Val His Phe Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys
              20              25              30
Arg Tyr Gly Pro Phe Gly Pro Pro Pro Ser Gln Ala Ser Ser Gly
              35              40              45
Gln Ala Arg Met Phe Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu
              50              55              60
Ser Gln Pro Ala Ile Arg Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp
              65              70              75              80
Gly Thr Pro Ser Tyr Gly His Thr Pro Ser His His Ala Ala Gln Phe
              85              90              95
Pro Asn His Ser Phe Lys His Glu Asp Pro Met Gly Gln Gln Gly Ser
              100              105              110

```

```

Leu Gly Glu Gln Gln Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His
      115                      120                      125
Thr Pro Thr Asp Ser Cys Thr Gly Ser Gln Ala Leu Leu Leu Arg Thr
      130                      135                      140
Pro Tyr Ser Ser Asp Asn Leu Tyr
145                      150

```

```

<210> 344
<211> 133
<212> PRT
<213> Homo sapiens

```

```

<400> 344
Met Gln His His His His His His Gln Ala Leu Leu Leu Arg Thr Pro
      5                      10                      15
Tyr Ser Ser Asp Asn Leu Tyr Gln Met Thr Ser Gln Leu Glu Cys Met
      20                      25                      30
Thr Trp Asn Gln Met Asn Leu Gly Ala Thr Leu Lys Gly His Ser Thr
      35                      40                      45
Gly Tyr Glu Ser Asp Asn His Thr Thr Pro Ile Leu Cys Gly Ala Gln
      50                      55                      60
Tyr Arg Ile His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg
      65                      70                      75                      80
Arg Val Pro Gly Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr
      85                      90                      95
Ser Glu Lys Arg Pro Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg
      100                     105                     110
Tyr Phe Lys Leu Ser His Leu Gln Met His Ser Arg Lys His Thr Gly
      115                     120                     125
Glu Lys Pro Tyr Gln
      130

```

```

<210> 345
<211> 112
<212> PRT
<213> Homo sapiens

```

```

<400> 345
Met Gln His His His His His His His Ser Arg Lys His Thr Gly Glu
      5                      10                      15
Lys Pro Tyr Gln Cys Asp Phe Lys Asp Cys Glu Arg Arg Phe Phe Arg
      20                      25                      30
Ser Asp Gln Leu Lys Arg His Gln Arg Arg His Thr Gly Val Lys Pro
      35                      40                      45
Phe Gln Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu
      50                      55                      60
Lys Thr His Thr Arg Thr His Thr Gly Glu Lys Pro Phe Ser Cys Arg
      65                      70                      75                      80
Trp Pro Ser Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg
      85                      90                      95
His His Asn Met His Gln Arg Asn Met Thr Lys Leu Gln Leu Ala Leu
      100                     105                     110

```

<210> 346
 <211> 369
 <212> PRT
 <213> Homo sapiens

<400> 346
 Met Gln His His His His His His His Ser Phe Ile Lys Gln Glu Pro
 5 10 15
 Ser Trp Gly Gly Ala Glu Pro His Glu Glu Gln Cys Leu Ser Ala Phe
 20 25 30
 Thr Val His Phe Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg
 35 40 45
 Tyr Gly Pro Phe Gly Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln
 50 55 60
 Ala Arg Met Phe Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser
 65 70 75 80
 Gln Pro Ala Ile Arg Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp Gly
 85 90 95
 Thr Pro Ser Tyr Gly His Thr Pro Ser His His Ala Ala Gln Phe Pro
 100 105 110
 Asn His Ser Phe Lys His Glu Asp Pro Met Gly Gln Gln Gly Ser Leu
 115 120 125
 Gly Glu Gln Gln Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr
 130 135 140
 Pro Thr Asp Ser Cys Thr Gly Ser Gln Ala Leu Leu Leu Arg Thr Pro
 145 150 155 160
 Tyr Ser Ser Asp Asn Leu Tyr Gln Met Thr Ser Gln Leu Glu Cys Met
 165 170 175
 Thr Trp Asn Gln Met Asn Leu Gly Ala Thr Leu Lys Gly His Ser Thr
 180 185 190
 Gly Tyr Glu Ser Asp Asn His Thr Pro Ile Leu Cys Gly Ala Gln
 195 200 205
 Tyr Arg Ile His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg
 210 215 220
 Arg Val Pro Gly Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr
 225 230 235 240
 Ser Glu Lys Arg Pro Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg
 245 250 255
 Tyr Phe Lys Leu Ser His Leu Gln Met His Ser Arg Lys His Thr Gly
 260 265 270
 Glu Lys Pro Tyr Gln Cys Asp Phe Lys Asp Cys Glu Arg Arg Phe Phe
 275 280 285
 Arg Ser Asp Gln Leu Lys Arg His Gln Arg Arg His Thr Gly Val Lys
 290 295 300
 Pro Phe Gln Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His
 305 310 315 320
 Leu Lys Thr His Thr Arg Thr His Thr Gly Glu Lys Pro Phe Ser Cys
 325 330 335
 Arg Trp Pro Ser Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val
 340 345 350
 Arg His His Asn Met His Gln Arg Asn Met Thr Lys Leu Gln Leu Ala
 355 360 365

Leu

<210> 347
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 347
 ggctccgacg tgcgggacct g 21

<210> 348
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 348
 gaattctcaa agcgccagct ggagtttggt 30

<210> 349
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 349
 ggctccgacg tgcgggacct g 21

<210> 350
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 350
 gaattctcaa agcgccagct ggagtttggt 30

<210> 351
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 351
 cacagcacag ggtacgagag c 21

<210> 352
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 352
 gaattctcaa agcgccagct ggagtttggt 30

<210> 353
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 353
 cacgaagaac agtgcctgag cgcattcac 29

<210> 354
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 354
 ccggcgaatt catcagtata aattgtcact gc 32

<210> 355
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 355
 caggctttgc tgctgaggac gccc 24

<210> 356
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Primer

<400> 356

cacggagaat tcatcactgg tatggtttct cacc

34

<210> 357

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 357

cacagcagga agcacactgg tgagaaac

28

<210> 358

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 358

ggatatctgc agaattctca aagcgccagc

30

<210> 359

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 359

cactccttca tcaaacagga ac

22

<210> 360

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 360

ggatatctgc agaattctca aagcgccagc

30

<210> 361

<211> 33

<212> DNA

<213> Artificial Sequence

<220>
 <223> Primer

 <400> 361
 ggttccgacg tgcgggacct gaacgcactg ctg 33

 <210> 362
 <211> 40
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 362
 ctgccggcag cagtgcgttc aggtcccgca cgtcggaacc 40

 <210> 363
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 363
 ccggcagttc catccctggg tggcggtgga ggctg 35

 <210> 364
 <211> 38
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 364
 cggcagtgcg cagcctccac cgccacccag ggatggaa 38

 <210> 365
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 365
 cgcactgccg gttagcgggtg cagcacagtg ggctc 35

 <210> 366
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

 <400> 366
 cagaactgga gccactgtg ctgcaccgct aac 33

 <210> 367
 <211> 38
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 367
 cagttctgga cttcgaccg cctgggtgcat ccgcatatc 38

 <210> 368
 <211> 39
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 368
 caggaaccg tatgcggatg caccaggcgg tgcgaagtc 39

 <210> 369
 <211> 38
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 369
 ggttccctgg gtggtccagc acctccgcc gcaacgcc 38

 <210> 370
 <211> 38
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer

 <400> 370
 ggcggtgggg gcgttgcggg cggaggtgct ggaccacc 38

 <210> 371
 <211> 40
 <212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 371

cccaccgcct ccaccgcccc cgcactcctt catcaaacag

40

<210> 372

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 372

ctaggttcct gtttgatgaa ggagtgcggg ggcggtgga

39

<210> 373

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 373

gaacctagct ggggtggtgc agaaccgcac gaagaaca

38

<210> 374

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 374

ctcaggcact gttcttcgtg cggttctgca ccaccccag

39

<210> 375

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 375

gtgcctgagc gcattctgag aattctgcag at

32

<210> 376

<211> 34

<212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 376
 gtgtgatgga tatctgcaga attctcagaa tgcg

34

<210> 377
 <211> 1292
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 253,256,517,518,520,521,522,743,753,754,
 758
 <223> n = A,T,C or G

<400> 377
 atgggctccg acgttcgtga cctgagcgcg ctgctgccgg cagttccgtc cctgggtgat 60
 ggtggtggtt gcgcactgcc ggtagcgggt gcagcacagt gggctccgggt tctggacttc 120
 gcaccgccgg gtgcatccgc acacgggtccc ctgggtgggtc cggcgccgcc gtcggcaccg 180
 ccgccgccgc cgcgccgcc gccgcactcc ttcatacaaac agggaccgag ctgggggtggc 240
 gcggaactgc ackaakaaca gtacctgagc gcgttcaccg ttcactcctc cgggtcagggt 300
 cactggcagc gccggggcct gtcgtacgg gccctcggc cccctccgc ccagccaggc 360
 gtcacccggc caggccagga tgtctcctag cgcgccctgc ctgcccagcc gcctcgagag 420
 ccagcccgtc acccgcaatc ggggtacag cacggtcacc ttcgacgggg cgtccggcta 480
 cggtcacacg cctcgcacc atgcggcgca gttctcsmar yyactcgta ggcgtgagga 540
 tccccggggc cagcagggtc cgtggtgga gcagcagtgc tcggcgccgc ccccgccctg 600
 tgccgccac accccgccg acagctgcgc cggcagccag gctttgctgc tgagggcgcc 660
 ctgtagcagc gacggtttat accaagtgc gtcccagctt gagtgcattg cctggagtca 720
 gatgagcctc ggggccgcct tamcgggccca cakyacargg tacgagagcg atgatcacac 780
 aacgcccgcc ctctgcggag cccaatacag aatacacag cacggtgcct tcaggggcgt 840
 tcaggggtgt cgccgtgtgc ctggagtagc cccgactctt gtacggtcgg catctgaggc 900
 cagttaggaa cgcacctca tgtgtgctta cccaggctgc aataggaggt atctgaagct 960
 gccccgctta cagatgcagc gtaggaagca cgtggtgag agaccatacc agtgtgactt 1020
 caaggactgt ggacggaggt tttctgctc agaccggctc aaaagacacc aggggaggca 1080
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 <212> DNA
 <213> Homo sapiens

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<210> 379
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<212> DNA
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<213> Homo sapiens

<400> 380

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<210> 381
 <211> 1291
 <212> DNA
 <213> Homo sapiens

<400> 381
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<210> 382
 <211> 1491
 <212> DNA
 <213> Homo sapiens

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<210> 383
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<212> DNA
<213> Homo sapiens

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<210> 384
<211> 228
<212> DNA
<213> Homo sapiens

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<400> 384
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cagaggttga tctttgcggg aaaacagctg gaagatggtc gtaccctgtc tgactacaac 180
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<210> 385

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<211> 1515
 <212> DNA
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<210> 387
 <211> 1089
 <212> DNA

<213> Homo sapiens

<400> 387

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aggaagcaca ctggtgagaa accataccag tgtgacttca aggactgtga acgaagggtt 840
tttcgttcag accagctcaa aagacaccaa aggagacata cagggtgtgaa accattccag 900
tgtaaaactt gtcagcgaaa gttctccggg tccgaccacc tgaagacca caccaggact 960
catacagggtg aaaagccctt cagctgtcgg tggccaagtt gtcagaaaaa gtttgcccgg 1020
tcagatgaat tagtccgcca tcacaacatg catcagagaa acatgacca actccagctg 1080
gcgctttga                                     1089

```

<210> 388

<211> 1035

<212> DNA

<213> Homo sapiens

<400> 388

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atgacggccg cgtccgataa cttccagctg tcccagggtg ggcagggtt cgcatttcg 60
atcgggcagg cgatggcgat cgcgggccag atcaagcttc ccaccgttca tategggcct 120
accgccttcc tcggcttggg tgttgctcag aacaacggca acggcgacg agtccaacgc 180
gtggtcggga gcgtccggc ggcaagtctc ggcattctca cggcgacgt gatcaccgcg 240
gtcgacggcg ctccgatcaa ctccggccacc cggatggcgg acgcgcttaa cgggcatcat 300
cccgtgacg tcatctcggg gacctggcaa accaagtctg gcggcacgcg tacagggaac 360
gtgacattgg ccgaggggacc cccggccgaa ttccactcct tcatcaaaca ggaaccgagc 420
tggggtggtg cagaaccgca cgaagaacag tgctgagcg cattcacctg tcaattctcc 480
ggccagttca ctggcacagc cggagcctgt cgtacgggc ctttcgggtc tctccgccc 540
agccaggcgt catccggcca ggccaggatg tttctaacg cgccctacct gccagctgc 600
ctcgagagcc agcccgtat tcgcaatcag ggttacagca cggtcacctt cgacgggacg 660
cccagctacg gtcacacgcc ctgcgaccat gcggcgagcgt tccccaacca ctcatccaag 720
catgaggatc ccatgggcca gcagggtctg ctgggtgagc agcagtactc ggtgccgccc 780
ccggtctatg gctgccacac cccaccgac agctgcaccg gcagccaggc tttgctgctg 840
aggacgcctt acagcagtga caatttatac caaatgacat cccagcttga atgcatgacc 900
tggaatcaga tgaacttagg agccacctta aagggccaca gcacagggtg cgagagcgat 960
aaccacacaa cgccatcct ctgaggagcc caatacagaa tacacacgca cgggtgtctt 1020
agaggcattc agtga                                     1035

```

<210> 389

<211> 1263

<212> DNA

<213> Homo sapiens

<400> 389

```

atgacggccg cgtccgataa cttccagctg tcccaggggtg ggcaggggatt cgccattccg 60
atcgggcagg cgatggcgat cgcgggccag atcaagcttc ccaccgttca tatcgggcct 120
accgccttcc tcggcttggg tgttgtegac aacaacggca acggcgacg agtccaacgc 180
gtggtcggga gcgctccggc ggcaagtctc ggcatctcca ccggcgacgt gatcaccgag 240
gtcgacggcg ctccgatcaa ctccggccacc gcgatggcgg acgcgcttaa cgggcatcat 300
cccggtgacg tcatctcggg gacctggcaa accaagtcgg gcggcacgag tacagggaac 360
gtgacattgg ccgagggacc cccggccgaa tccccgctgg tgccgcgcgg cagcccgatg 420
ggctccgacg ttcgggacct gaacgcactg ctgccggcag ttcggtccct ggggtggtgg 480
ggtggttgcg cactgccggg tagcgggtgca gcacagtggg ctccggttct ggacttcgca 540
ccgccgggtg catccgcata cggttccctg ggtggtccgg caccgccgcc ggcaccgccg 600
ccgccgccgc cgcgccgcc gcactccttc atcaaacagg aaccgagctg ggggtggtgca 660
gaaccgcacg aagaacagtg cctgagcgca ttcaccgttc attcttcgg ccagttcact 720
ggcacagccg gagcctgtcg ctacggggcc ttcgggtctc ctccgccag ccaggcgta 780
tccggccagg ccaggatggt tcctaacgcg ccctacctgc ccagctgcct cgagagccag 840
cccgtattc gcaatcaggg ttacagcacg gtcaccttcg acgggacgcc cagctacggt 900
cacacgccct cgcacctatg ggcgcagttc cccaaccact cattcaagca tgaggatccc 960
atgggccagc agggctcgct ggggtgagcag cagtactcgg tgccgcccc ggtctatggc 1020
tgccacaccc ccaccgacag ctgcaccggc agccaggctt tgctgctgag gacgccctac 1080
agcagtgaca atttatacca aatgacatcc cagcttgaat gcatgacctg gaatcagatg 1140
aacttaggag ccaccttaaa gggccacagc acagggtacg agagcgataa ccacacaacg 1200
cccacctct cgcggagccca atacagaata cacacgcacg gtgtcttcag aggcattcag 1260
tga 1263

```

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<210> 390
<211> 1707
<212> DNA
<213> Homo sapiens

```

```

<400> 390
atgacggccg cgtccgataa cttccagctg tcccaggggtg ggcaggggatt cgccattccg 60
atcgggcagg cgatggcgat cgcgggccag atcaagcttc ccaccgttca tatcgggcct 120
accgccttcc tcggcttggg tgttgtegac aacaacggca acggcgacg agtccaacgc 180
gtggtcggga gcgctccggc ggcaagtctc ggcatctcca ccggcgacgt gatcaccgag 240
gtcgacggcg ctccgatcaa ctccggccacc gcgatggcgg acgcgcttaa cgggcatcat 300
cccggtgacg tcatctcggg gacctggcaa accaagtcgg gcggcacgag tacagggaac 360
gtgacattgg ccgagggacc cccggccgaa tccccgctgg tgccgcgcgg cagcccgatg 420
ggctccgacg ttcgggacct gaacgcactg ctgccggcag ttcggtccct ggggtggtgg 480
ggtggttgcg cactgccggg tagcgggtgca gcacagtggg ctccggttct ggacttcgca 540
ccgccgggtg catccgcata cggttccctg ggtggtccgg caccgccgcc ggcaccgccg 600
ccgccgccgc cgcgccgcc gcactccttc atcaaacagg aaccgagctg ggggtggtgca 660
gaaccgcacg aagaacagtg cctgagcgca ttcaccgttc attcttcgg ccagttcact 720
ggcacagccg gagcctgtcg ctacggggcc ttcgggtctc ctccgccag ccaggcgta 780
tccggccagg ccaggatggt tcctaacgcg ccctacctgc ccagctgcct cgagagccag 840
cccgtattc gcaatcaggg ttacagcacg gtcaccttcg acgggacgcc cagctacggt 900
cacacgccct cgcacctatg ggcgcagttc cccaaccact cattcaagca tgaggatccc 960
atgggccagc agggctcgct ggggtgagcag cagtactcgg tgccgcccc ggtctatggc 1020
tgccacaccc ccaccgacag ctgcaccggc agccaggctt tgctgctgag gacgccctac 1080
agcagtgaca atttatacca aatgacatcc cagcttgaat gcatgacctg gaatcagatg 1140
aacttaggag ccaccttaaa gggccacagc acagggtacg agagcgataa ccacacaacg 1200
cccacctct cgcggagccca atacagaata cacacgcacg gtgtcttcag aggcattcag 1260
gatgtgcgac cgtgtgcctg agtagcccc actcttgtac ggtcggcatc tgagaccagt 1320
gagaaacgcc cttctcatgt tgcttaccga ggctgcaata agagatatat taagctgtcc 1380
cacttacaga tgacacgac gaagcacact ggtgagaaac cataccagtg tgacttcaag 1440
gactgtgaac gaagggtttt tcgttcagac cagctcaaaa gacaccaaag gagacataca 1500

```

```

ggtgtgaaac cattccagtg taaaacttgt cagcgaaagt tctcccgggc cgaccacctg 1560
aagaccacaca ccaggactca tacaggtgaa aagcccttca gctgtcgggtg gccaagttgt 1620
cagaaaaagt ttgcccgggc agatgaatta gtccgccatc acaacatgca tcagagaaac 1680
atgaccaaac tccagctggc gctttga 1707

```

<210> 391

<211> 344

<212> PRT

<213> Homo sapiens

<400> 391

```

Met Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly
      5              10              15

Phe Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Lys
      20              25              30

Leu Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly Leu Gly Val
      35              40              45

Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val Val Gly Ser
      50              55              60

Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val Ile Thr Ala
      65              70              75              80

Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala Asp Ala Leu
      85              90              95

Asn Gly His His Pro Gly Asp Val Ile Ser Val Thr Trp Gln Thr Lys
      100             105             110

Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu Gly Pro Pro
      115             120             125

Ala Glu Phe His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly Ala
      130             135             140

Glu Pro His Glu Glu Gln Cys Leu Ser Ala Phe Thr Val His Phe Ser
      145             150             155             160

Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe Gly
      165             170             175

Pro Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe Pro
      180             185             190

Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile Arg
      195             200             205

Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp Gly Thr Pro Ser Tyr Gly
      210             215             220

His Thr Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe Lys

```

225 230 235 240
 His Glu Asp Pro Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln Tyr
 245 250 255
 Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser Cys
 260 265 270
 Thr Gly Ser Gln Ala Leu Leu Leu Arg Thr Pro Tyr Ser Ser Asp Asn
 275 280 285
 Leu Tyr Gln Met Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln Met
 290 295 300
 Asn Leu Gly Ala Thr Leu Lys Gly His Ser Thr Gly Tyr Glu Ser Asp
 305 310 315 320
 Asn His Thr Thr Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile His Thr
 325 330 335
 His Gly Val Phe Arg Gly Ile Gln
 340

<210> 392
 <211> 568
 <212> PRT
 <213> Homo sapiens

<400> 392
 Met Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly
 5 10 15
 Phe Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Lys
 20 25 30
 Leu Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly Leu Gly Val
 35 40 45
 Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val Val Gly Ser
 50 55 60
 Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val Ile Thr Ala
 65 70 75 80
 Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala Asp Ala Leu
 85 90 95
 Asn Gly His His Pro Gly Asp Val Ile Ser Val Thr Trp Gln Thr Lys
 100 105 110
 Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu Gly Pro Pro
 115 120 125

Ala	Glu	Phe	Pro	Leu	Val	Pro	Arg	Gly	Ser	Pro	Met	Gly	Ser	Asp	Val	130	135	140	
Arg	Asp	Leu	Asn	Ala	Leu	Leu	Pro	Ala	Val	Pro	Ser	Leu	Gly	Gly	Gly	145	150	155	160
Gly	Gly	Cys	Ala	Leu	Pro	Val	Ser	Gly	Ala	Ala	Gln	Trp	Ala	Pro	Val	165	170	175	
Leu	Asp	Phe	Ala	Pro	Pro	Gly	Ala	Ser	Ala	Tyr	Gly	Ser	Leu	Gly	Gly	180	185	190	
Pro	Ala	Pro	Pro	Pro	Ala	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	His	195	200	205	
Ser	Phe	Ile	Lys	Gln	Glu	Pro	Ser	Trp	Gly	Gly	Ala	Glu	Pro	His	Glu	210	215	220	
Glu	Gln	Cys	Leu	Ser	Ala	Phe	Thr	Val	His	Phe	Ser	Gly	Gln	Phe	Thr	225	230	235	240
Gly	Thr	Ala	Gly	Ala	Cys	Arg	Tyr	Gly	Pro	Phe	Gly	Pro	Pro	Pro	Pro	245	250	255	
Ser	Gln	Ala	Ser	Ser	Gly	Gln	Ala	Arg	Met	Phe	Pro	Asn	Ala	Pro	Tyr	260	265	270	
Leu	Pro	Ser	Cys	Leu	Glu	Ser	Gln	Pro	Ala	Ile	Arg	Asn	Gln	Gly	Tyr	275	280	285	
Ser	Thr	Val	Thr	Phe	Asp	Gly	Thr	Pro	Ser	Tyr	Gly	His	Thr	Pro	Ser	290	295	300	
His	His	Ala	Ala	Gln	Phe	Pro	Asn	His	Ser	Phe	Lys	His	Glu	Asp	Pro	305	310	315	320
Met	Gly	Gln	Gln	Gly	Ser	Leu	Gly	Glu	Gln	Gln	Tyr	Ser	Val	Pro	Pro	325	330	335	
Pro	Val	Tyr	Gly	Cys	His	Thr	Pro	Thr	Asp	Ser	Cys	Thr	Gly	Ser	Gln	340	345	350	
Ala	Leu	Leu	Leu	Arg	Thr	Pro	Tyr	Ser	Ser	Asp	Asn	Leu	Tyr	Gln	Met	355	360	365	
Thr	Ser	Gln	Leu	Glu	Cys	Met	Thr	Trp	Asn	Gln	Met	Asn	Leu	Gly	Ala	370	375	380	
Thr	Leu	Lys	Gly	His	Ser	Thr	Gly	Tyr	Glu	Ser	Asp	Asn	His	Thr	Thr	385	390	395	400
Pro	Ile	Leu	Cys	Gly	Ala	Gln	Tyr	Arg	Ile	His	Thr	His	Gly	Val	Phe	405	410	415	

Arg Gly Ile Gln Asp Val Arg Arg Val Pro Gly Val Ala Pro Thr Leu
 420 425 430
 Val Arg Ser Ala Ser Glu Thr Ser Glu Lys Arg Pro Phe Met Cys Ala
 435 440 445
 Tyr Pro Gly Cys Asn Lys Arg Tyr Phe Lys Leu Ser His Leu Gln Met
 450 455 460
 His Ser Arg Lys His Thr Gly Glu Lys Pro Tyr Gln Cys Asp Phe Lys
 465 470 475 480
 Asp Cys Glu Arg Arg Phe Phe Arg Ser Asp Gln Leu Lys Arg His Gln
 485 490 495
 Arg Arg His Thr Gly Val Lys Pro Phe Gln Cys Lys Thr Cys Gln Arg
 500 505 510
 Lys Phe Ser Arg Ser Asp His Leu Lys Thr His Thr Arg Thr His Thr
 515 520 525
 Gly Glu Lys Pro Phe Ser Cys Arg Trp Pro Ser Cys Gln Lys Lys Phe
 530 535 540
 Ala Arg Ser Asp Glu Leu Val Arg His His Asn Met His Gln Arg Asn
 545 550 555 560
 Met Thr Lys Leu Gln Leu Ala Leu
 565

<210> 393
 <211> 420
 <212> PRT
 <213> Homo sapiens

<400> 393
 Met Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly
 5 10 15
 Phe Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Lys
 20 25 30
 Leu Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly Leu Gly Val
 35 40 45
 Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val Val Gly Ser
 50 55 60
 Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val Ile Thr Ala
 65 70 75 80
 Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala Asp Ala Leu
 85 90 95

Asn	Gly	His	His	Pro	Gly	Asp	Val	Ile	Ser	Val	Thr	Trp	Gln	Thr	Lys	100	105	110	
Ser	Gly	Gly	Thr	Arg	Thr	Gly	Asn	Val	Thr	Leu	Ala	Glu	Gly	Pro	Pro	115	120	125	
Ala	Glu	Phe	Pro	Leu	Val	Pro	Arg	Gly	Ser	Pro	Met	Gly	Ser	Asp	Val	130	135	140	
Arg	Asp	Leu	Asn	Ala	Leu	Leu	Pro	Ala	Val	Pro	Ser	Leu	Gly	Gly	Gly	145	150	155	160
Gly	Gly	Cys	Ala	Leu	Pro	Val	Ser	Gly	Ala	Ala	Gln	Trp	Ala	Pro	Val	165	170	175	
Leu	Asp	Phe	Ala	Pro	Pro	Gly	Ala	Ser	Ala	Tyr	Gly	Ser	Leu	Gly	Gly	180	185	190	
Pro	Ala	Pro	Pro	Pro	Ala	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	His	195	200	205	
Ser	Phe	Ile	Lys	Gln	Glu	Pro	Ser	Trp	Gly	Gly	Ala	Glu	Pro	His	Glu	210	215	220	
Glu	Gln	Cys	Leu	Ser	Ala	Phe	Thr	Val	His	Phe	Ser	Gly	Gln	Phe	Thr	225	230	235	240
Gly	Thr	Ala	Gly	Ala	Cys	Arg	Tyr	Gly	Pro	Phe	Gly	Pro	Pro	Pro	Pro	245	250	255	
Ser	Gln	Ala	Ser	Ser	Gly	Gln	Ala	Arg	Met	Phe	Pro	Asn	Ala	Pro	Tyr	260	265	270	
Leu	Pro	Ser	Cys	Leu	Glu	Ser	Gln	Pro	Ala	Ile	Arg	Asn	Gln	Gly	Tyr	275	280	285	
Ser	Thr	Val	Thr	Phe	Asp	Gly	Thr	Pro	Ser	Tyr	Gly	His	Thr	Pro	Ser	290	295	300	
His	His	Ala	Ala	Gln	Phe	Pro	Asn	His	Ser	Phe	Lys	His	Glu	Asp	Pro	305	310	315	320
Met	Gly	Gln	Gln	Gly	Ser	Leu	Gly	Glu	Gln	Gln	Tyr	Ser	Val	Pro	Pro	325	330	335	
Pro	Val	Tyr	Gly	Cys	His	Thr	Pro	Thr	Asp	Ser	Cys	Thr	Gly	Ser	Gln	340	345	350	
Ala	Leu	Leu	Leu	Arg	Thr	Pro	Tyr	Ser	Ser	Asp	Asn	Leu	Tyr	Gln	Met	355	360	365	
Thr	Ser	Gln	Leu	Glu	Cys	Met	Thr	Trp	Asn	Gln	Met	Asn	Leu	Gly	Ala	370	375	380	

Thr Leu Lys Gly His Ser Thr Gly Tyr Glu Ser Asp Asn His Thr Thr
 385 390 395 400

Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile His Thr His Gly Val Phe
 405 410 415

Arg Gly Ile Gln
 420

<210> 394

<211> 362

<212> PRT

<213> Homo sapiens

<400> 394

Met His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly Ala Glu Pro
 5 10 15

His Glu Glu Gln Cys Leu Ser Ala Phe Thr Val His Phe Ser Gly Gln
 20 25 30

Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe Gly Pro Pro
 35 40 45

Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe Pro Asn Ala
 50 55 60

Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile Arg Asn Gln
 65 70 75 80

Gly Tyr Ser Thr Val Thr Phe Asp Gly Thr Pro Ser Tyr Gly His Thr
 85 90 95

Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe Lys His Glu
 100 105 110

Asp Pro Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln Tyr Ser Val
 115 120 125

Pro Pro Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser Cys Thr Gly
 130 135 140

Ser Gln Ala Leu Leu Leu Arg Thr Pro Tyr Ser Ser Asp Asn Leu Tyr
 145 150 155 160

Gln Met Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln Met Asn Leu
 165 170 175

Gly Ala Thr Leu Lys Gly His Ser Thr Gly Tyr Glu Ser Asp Asn His
 180 185 190

Thr Thr Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile His Thr His Gly

195	200	205
Val Phe Arg Gly Ile Gln Asp Val Arg Arg Val Pro Gly Val Ala Pro		
210	215	220
Thr Leu Val Arg Ser Ala Ser Glu Thr Ser Glu Lys Arg Pro Phe Met		
225	230	235
Cys Ala Tyr Pro Gly Cys Asn Lys Arg Tyr Phe Lys Leu Ser His Leu		
245	250	255
Gln Met His Ser Arg Lys His Thr Gly Glu Lys Pro Tyr Gln Cys Asp		
260	265	270
Phe Lys Asp Cys Glu Arg Arg Phe Phe Arg Ser Asp Gln Leu Lys Arg		
275	280	285
His Gln Arg Arg His Thr Gly Val Lys Pro Phe Gln Cys Lys Thr Cys		
290	295	300
Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr His Thr Arg Thr		
305	310	315
His Thr Gly Glu Lys Pro Phe Ser Cys Arg Trp Pro Ser Cys Gln Lys		
325	330	335
Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His Asn Met His Gln		
340	345	350
Arg Asn Met Thr Lys Leu Gln Leu Ala Leu		
355	360	

<210> 395
 <211> 214
 <212> PRT
 <213> Homo sapiens

<400> 395
Met His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly Ala Glu Pro
5 10 15
His Glu Glu Gln Cys Leu Ser Ala Phe Thr Val His Phe Ser Gly Gln
20 25 30
Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe Gly Pro Pro
35 40 45
Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe Pro Asn Ala
50 55 60
Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile Arg Asn Gln
65 70 75 80

Gly Tyr Ser Thr Val Thr Phe Asp Gly Thr Pro Ser Tyr Gly His Thr
 85 90 95
 Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe Lys His Glu
 100 105 110
 Asp Pro Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln Tyr Ser Val
 115 120 125
 Pro Pro Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser Cys Thr Gly
 130 135 140
 Ser Gln Ala Leu Leu Leu Arg Thr Pro Tyr Ser Ser Asp Asn Leu Tyr
 145 150 155 160
 Gln Met Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln Met Asn Leu
 165 170 175
 Gly Ala Thr Leu Lys Gly His Ser Thr Gly Tyr Glu Ser Asp Asn His
 180 185 190
 Thr Thr Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile His Thr His Gly
 195 200 205
 Val Phe Arg Gly Ile Gln
 210

<210> 396
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 396
 gacgaaagca tatgcactcc ttcacaaac

30

<210> 397
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 397
 cgcgtgaatt catcactgaa tgcctctgaa g

31

<210> 398
 <211> 31
 <212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 398

cgataagcat atgacggccg cgtccgataa c

31

<210> 399

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 399

cgcggtgaatt catcactgaa tgcctctgaa g

31

<210> 400

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 400

cgataagcat atgacggccg cgtccgataa c

31

<210> 401

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 401

gtctgcagcg gccgctcaaa gcgccagc

28

<210> 402

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 402

gacgaaagca tatgcactcc ttcacaaac

30

<210> 403

<211> 28

<212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 403
 gtctgcagcg gccgctcaaa gcgccagc

28

<210> 404
 <211> 449
 <212> PRT
 <213> Homo sapiens

<400> 404
 Met Gly Ser Asp Val Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Pro
 1 5 10 15
 Ser Leu Gly Gly Gly Gly Gly Cys Ala Leu Pro Val Ser Gly Ala Ala
 20 25 30
 Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr
 35 40 45
 Gly Ser Leu Gly Gly Pro Ala Pro Pro Pro Ala Pro Pro Pro Pro
 50 55 60
 Pro Pro Pro Pro His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly
 65 70 75 80
 Ala Glu Pro His Glu Glu Gln Cys Leu Ser Ala Phe Thr Val His Phe
 85 90 95
 Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe
 100 105 110
 Gly Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe
 115 120 125
 Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile
 130 135 140
 Arg Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp Gly Thr Pro Ser Tyr
 145 150 155 160
 Gly His Thr Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe
 165 170 175
 Lys His Glu Asp Pro Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln
 180 185 190
 Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser
 195 200 205
 Cys Thr Gly Ser Gln Ala Leu Leu Leu Arg Thr Pro Tyr Ser Ser Asp
 210 215 220
 Asn Leu Tyr Gln Met Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln
 225 230 235 240
 Met Asn Leu Gly Ala Thr Leu Lys Gly Val Ala Ala Gly Ser Ser Ser
 245 250 255
 Ser Val Lys Trp Thr Glu Gly Gln Ser Asn His Ser Thr Gly Tyr Glu
 260 265 270
 Ser Asp Asn His Thr Thr Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile
 275 280 285
 His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg Arg Val Pro
 290 295 300

Gly Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr Ser Glu Lys
 305 310 315 320
 Arg Pro Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg Tyr Phe Lys
 325 330 335
 Leu Ser His Leu Gln Met His Ser Arg Lys His Thr Gly Glu Lys Pro
 340 345 350
 Tyr Gln Cys Asp Phe Lys Asp Cys Glu Arg Arg Phe Ser Arg Ser Asp
 355 360 365
 Gln Leu Lys Arg His Gln Arg Arg His Thr Gly Val Lys Pro Phe Gln
 370 375 380
 Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr
 385 390 395 400
 His Thr Arg Thr His Thr Gly Lys Thr Ser Glu Lys Pro Phe Ser Cys
 405 410 415
 Arg Trp Pro Ser Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val
 420 425 430
 Arg His His Asn Met His Gln Arg Asn Met Thr Lys Leu Gln Leu Ala
 435 440 445
 Leu

<210> 405
 <211> 428
 <212> PRT
 <213> Homo sapiens

<400> 405
 Met Gly Ser Asp Val Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Pro
 1 5 10 15
 Ser Pro Gly Gly Gly Gly Cys Ala Leu Pro Val Ser Gly Ala Thr
 20 25 30
 Gln Trp Ala Pro Val Leu Asp Phe Val Pro Pro Gly Ala Pro Val Cys
 35 40 45
 Gly Ser Leu Gly Gly Pro Ala Pro Pro Pro Ala Pro Pro Pro Leu Pro
 50 55 60
 Pro Pro Pro Ser His Ser Phe Thr Lys Gln Glu Pro Ser Trp Gly Gly
 65 70 75 80
 Thr Glu Pro His Ala Gly Gln Gly Arg Ser Ala Leu Val Ala His Ser
 85 90 95
 Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe
 100 105 110
 Gly Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe
 115 120 125
 Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile
 130 135 140
 Arg Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp Gly Thr Pro Ser Tyr
 145 150 155 160
 Gly His Thr Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Ser
 165 170 175
 Lys His Glu Asp Pro Met Gly Gln Gln Gly Ser Pro Gly Glu Gln Gln
 180 185 190
 Tyr Ser Ala Pro Pro Pro Val Cys Gly Cys Arg Thr Pro Thr Gly Ser
 195 200 205

```

Cys Thr Gly Ser Gln Ala Leu Leu Leu Arg Ala Pro Tyr Ser Gly Gly
 210                215                220
Asp Leu His Gln Thr Thr Ser Gln Leu Gly His Met Ala Trp Asn Gln
225                230                235                240
Thr Asn Leu Gly Ala Thr Leu Lys Gly His Gly Thr Gly Tyr Glu Ser
                245                250                255
Asp Asp His Thr Thr Pro Ile Leu Cys Gly Thr Gln Tyr Arg Ile Arg
                260                265                270
Ala Arg Gly Val Leu Arg Gly Thr Gln Asp Val Arg Cys Val Pro Gly
                275                280                285
Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr Ser Glu Lys Arg
                290                295                300
Pro Leu Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg His Phe Lys Pro
305                310                315                320
Ser Arg Leu Arg Val Arg Gly Arg Glu Arg Thr Gly Glu Lys Pro Tyr
                325                330                335
Gln Arg Asp Phe Lys Asp Arg Gly Arg Gly Leu Leu Arg Pro Asp Gln
                340                345                350
Leu Lys Arg His Gln Arg Gly His Thr Gly Val Lys Pro Leu Gln Cys
                355                360                365
Glu Ala Arg Arg Arg Pro Pro Arg Pro Gly His Leu Lys Val His Thr
                370                375                380
Arg Thr His Thr Gly Gly Glu Pro Phe Ser Cys Arg Trp Pro Ser Cys
385                390                395                400
Gln Glu Lys Ser Ala Arg Pro Asp Glu Ser Ala Arg Arg His Asn Met
                405                410                415
His Gln Arg Asn Met Thr Lys Leu Gln Leu Ala Leu
                420                425

```

<210> 406

<211> 414

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> 85, 86, 172, 173, 242, 245, 246, 247

<223> Xaa = Any Amino Acid

<400> 406

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Met Gly Ser Asp Val Arg Asp Leu Ser Ala Leu Leu Pro Ala Val Pro
 1                5                10                15
Ser Leu Gly Asp Gly Gly Gly Cys Ala Leu Pro Val Ser Gly Ala Ala
                20                25                30
Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala His
                35                40                45
Gly Pro Leu Gly Gly Pro Ala Pro Pro Ser Ala Pro Pro Pro Pro
                50                55                60
Pro Pro Pro Pro His Ser Phe Ile Lys Gln Gly Pro Ser Trp Gly Gly
65                70                75                80
Ala Glu Leu His Xaa Xaa Gln Tyr Leu Ser Ala Phe Thr Val His Ser
                85                90                95
Ser Gly Gln Val His Trp His Gly Arg Gly Leu Ser Leu Arg Ala Pro

```

```

      100      105      110
Arg Pro Pro Ser Ala Gln Pro Gly Val Ile Arg Pro Gly Gln Asp Val
      115      120      125
Ser Arg Ala Leu Pro Ala Gln Pro Pro Arg Glu Pro Ala Arg Tyr Pro
      130      135      140
Gln Ser Gly Leu Gln His Gly His Leu Arg Arg Gly Val Arg Leu Arg
145      150      155      160
Ser His Ala Leu Ala Pro Cys Gly Ala Val Leu Xaa Xaa Thr Arg Ala
      165      170      175
Gly Ser His Gly Pro Ala Gly Ser Ala Gly Ala Ala Val Leu Gly Ala
      180      185      190
Ala Pro Gly Leu Trp Pro Pro His Pro Arg Arg Gln Leu Arg Arg Gln
      195      200      205
Pro Gly Phe Ala Ala Glu Gly Ala Leu Gln Arg Arg Phe Ile Pro Ser
      210      215      220
Asp Val Pro Ala Val His Gly Leu Glu Ser Asp Glu Pro Arg Gly Arg
225      230      235      240
Leu Xaa Gly Pro Xaa Xaa Xaa Val Arg Glu Arg Ser His Asn Ala Arg
      245      250      255
Pro Leu Arg Ser Pro Ile Gln Asn Thr His Ala Arg Cys Leu Gln Gly
      260      265      270
Arg Ser Gly Cys Ala Pro Cys Ala Trp Ser Ser Pro Asp Ser Cys Thr
      275      280      285
Val Gly Ile Gly Gln Gly Thr Pro Pro His Val Cys Leu Pro Arg Leu
      290      295      300
Gln Glu Val Ser Glu Ala Ala Pro Leu Thr Asp Ala Arg Glu Ala Arg
305      310      315      320
Trp Glu Thr Ile Pro Val Leu Gln Gly Leu Trp Thr Glu Val Phe Leu
      325      330      335
Leu Arg Pro Ala Gln Lys Thr Pro Gly Glu Ala Tyr Arg Cys Glu Ala
      340      345      350
Ile Pro Ala Asp Leu Ser Ala Arg Val Leu Pro Ala Gln Pro Pro Glu
      355      360      365
Asp Pro Arg Gln Asp Ser Cys Arg Lys Ala Pro Gln Leu Ser Val Val
      370      375      380
Arg Leu Ser Glu Lys Ala Cys Pro Val Lys Val Gly Pro Pro Ser Arg
385      390      395      400
His Ala Ser Glu Gly His Asp Arg Thr Pro Ala Gly Ala Leu
      405      410

```

<210> 407

<211> 417

<212> PRT

<213> Homo sapiens

<400> 407

```

Met Gly Ser Asp Val Arg Asp Leu Ser Ala Leu Leu Pro Thr Ala Pro
 1      5      10      15
Ser Leu Gly Gly Gly Asp Cys Thr Leu Pro Val Ser Gly Thr Ala
      20      25      30
Gln Trp Ala Pro Val Pro Ala Ser Ala Pro Pro Gly Ala Ser Ala Tyr
      35      40      45
Asp Ser Leu Gly Gly Pro Ala Pro Pro Pro Ala Pro Pro Pro Pro

```


50		55		60											
Pro	Pro	Pro	Pro	His	Ser	Cys	Gly	Glu	Gln	Gly	Pro	Ser	Trp	Gly	Gly
65					70					75					80
Ala	Glu	Pro	Arg	Glu	Gly	Gln	Cys	Leu	Ser	Ala	Pro	Ala	Val	Arg	Phe
				85						90				95	
Ser	Gly	Arg	Phe	Thr	Gly	Thr	Val	Gly	Ala	Cys	Arg	Tyr	Gly	Pro	Leu
			100					105					110		
Gly	Pro	Pro	Pro	Pro	Ser	Gln	Ala	Pro	Ser	Gly	Gln	Thr	Arg	Met	Leu
	115						120					125			
Pro	Ser	Ala	Pro	Tyr	Leu	Ser	Ser	Cys	Leu	Arg	Ser	Arg	Ser	Ala	Ile
	130					135					140				
Arg	Ser	Gln	Gly	Arg	Ser	Thr	Ala	Pro	Ser	Ala	Gly	Arg	Pro	Ala	Met
145					150					155					160
Ala	Pro	Thr	Leu	Ala	Pro	Pro	Ala	Gln	Ser	His	Tyr	Ser	Gln	His	Gly
			165						170					175	
Val	Leu	His	Gly	Pro	Ala	Gly	Leu	Ala	Gly	Ala	Ala	Val	Leu	Gly	Ala
	180							185					190		
Ala	Pro	Gly	Leu	Trp	Leu	Pro	His	Pro	His	Arg	Gln	Leu	His	Arg	Gln
	195						200					205			
Pro	Gly	Phe	Ala	Ala	Glu	Asp	Ala	Leu	Gln	Gln	Gln	Phe	Ile	Pro	Asn
	210					215					220				
Asp	Ile	Pro	Ala	Met	His	Asp	Leu	Glu	Ser	Asp	Glu	Leu	Arg	Ser	His
225					230					235					240
Leu	Lys	Gly	Pro	Gln	His	Arg	Val	Arg	Glu	Arg	Pro	His	Asn	Ala	His
			245						250					255	
Pro	Leu	Arg	Ser	Pro	Ile	Gln	Asn	Thr	His	Ala	Arg	Cys	Leu	Gln	Arg
		260						265					270		
His	Ser	Gly	Cys	Ala	Thr	Cys	Ala	Trp	Ser	Ser	Pro	Asp	Ser	Cys	Thr
	275						280					285			
Val	Ala	Pro	Glu	Thr	Ser	Glu	Asn	Ala	Pro	Trp	Cys	Val	Leu	Pro	Gly
	290					295					300				
Leu	Gln	Gly	Val	Phe	Ala	Val	Pro	Leu	Thr	Gly	Ala	Gln	Gln	Glu	Ala
305					310					315					320
His	Trp	Asp	Ala	Thr	Pro	Val	Arg	Leu	Gln	Gly	Pro	Trp	Thr	Arg	Ala
			325						330					335	
Ser	Pro	Phe	Gly	Thr	Ser	Pro	Arg	Asp	Thr	Lys	Gly	Asp	Ile	Gln	Val
		340						345					350		
Arg	Asn	His	Ser	Ser	Val	Arg	Leu	Val	Ser	Glu	Gly	Ser	Pro	Gly	Pro
		355					360					365			
Thr	Thr	Gly	Pro	Thr	Pro	Gly	Pro	Thr	Arg	Val	Gly	Ser	Pro	Ser	Ala
	370					375					380				
Ala	Gly	Gly	Gln	Ala	Ala	Arg	Glu	Gly	Ser	Pro	Ser	Gln	Thr	Asn	Ser
385					390					395					400
Val	Ile	Thr	Thr	Cys	Ile	Ser	Glu	Thr	Leu	Asn	Ser	Ser	Trp	Arg	Phe
			405						410					415	
Glu															

<210> 408

<211> 429

<212> PRT

<213> Homo sapiens

<400> 408

Met	Gly	Ser	Asp	Val	Arg	Asp	Leu	Asn	Ala	Leu	Leu	Pro	Ala	Val	Pro
1				5					10					15	
Ser	Leu	Gly	Gly	Gly	Gly	Gly	Cys	Ala	Leu	Pro	Val	Ser	Gly	Ala	Ala
			20					25					30		
Gln	Trp	Ala	Pro	Val	Leu	Asp	Phe	Ala	Pro	Pro	Gly	Ala	Ser	Ala	Tyr
		35					40					45			
Gly	Ser	Leu	Gly	Gly	Pro	Ala	Pro	Pro	Pro	Ala	Pro	Pro	Pro	Pro	Pro
	50					55					60				
Pro	Pro	Pro	Pro	His	Ser	Phe	Ile	Lys	Gln	Glu	Pro	Ser	Trp	Gly	Gly
65					70					75					80
Ala	Glu	Pro	His	Glu	Gln	Cys	Leu	Ser	Ala	Phe	Thr	Val	His	Phe	
			85						90				95		
Ser	Gly	Gln	Phe	Thr	Gly	Thr	Ala	Gly	Ala	Cys	Arg	Tyr	Gly	Pro	Phe
			100					105					110		
Gly	Pro	Pro	Pro	Pro	Ser	Gln	Ala	Ser	Ser	Gly	Gln	Ala	Arg	Met	Phe
		115				120						125			
Pro	Asn	Ala	Pro	Tyr	Leu	Pro	Ser	Cys	Leu	Glu	Ser	Gln	Pro	Ala	Ile
	130					135						140			
Arg	Asn	Gln	Gly	Tyr	Ser	Thr	Val	Thr	Phe	Asp	Gly	Thr	Pro	Ser	Tyr
145					150					155					160
Gly	His	Thr	Pro	Ser	His	His	Ala	Ala	Gln	Phe	Pro	Asn	His	Ser	Phe
			165						170					175	
Lys	His	Glu	Asp	Pro	Met	Gly	Gln	Gln	Gly	Ser	Leu	Gly	Glu	Gln	Gln
			180					185					190		
Tyr	Ser	Val	Pro	Pro	Pro	Val	Tyr	Gly	Cys	His	Thr	Pro	Thr	Asp	Ser
		195					200					205			
Cys	Thr	Gly	Ser	Gln	Ala	Leu	Leu	Leu	Arg	Thr	Pro	Tyr	Ser	Ser	Asp
	210					215					220				
Asn	Leu	Tyr	Gln	Met	Thr	Ser	Gln	Leu	Glu	Cys	Met	Thr	Trp	Asn	Gln
225					230					235					240
Met	Asn	Leu	Gly	Ala	Thr	Leu	Lys	Gly	His	Ser	Thr	Gly	Tyr	Glu	Ser
			245						250					255	
Asp	Asn	His	Thr	Thr	Pro	Ile	Leu	Cys	Gly	Ala	Gln	Tyr	Arg	Ile	His
			260					265					270		
Thr	His	Gly	Val	Phe	Arg	Gly	Ile	Gln	Asp	Val	Arg	Arg	Val	Pro	Gly
		275					280					285			
Val	Ala	Pro	Thr	Leu	Val	Arg	Ser	Ala	Ser	Glu	Thr	Ser	Glu	Lys	Arg
	290					295					300				
Pro	Phe	Met	Cys	Ala	Tyr	Pro	Gly	Cys	Asn	Lys	Arg	Tyr	Phe	Lys	Leu
305					310					315					320
Ser	His	Leu	Gln	Met	His	Ser	Arg	Lys	His	Thr	Gly	Glu	Lys	Pro	Tyr
			325						330					335	
Gln	Cys	Asp	Phe	Lys	Asp	Cys	Glu	Arg	Arg	Phe	Phe	Arg	Ser	Asp	Gln
			340					345					350		
Leu	Lys	Arg	His	Gln	Arg	Arg	His	Thr	Gly	Val	Lys	Pro	Phe	Gln	Cys
		355					360					365			
Lys	Thr	Cys	Gln	Arg	Lys	Phe	Ser	Arg	Ser	Asp	His	Leu	Lys	Thr	His
	370					375					380				
Thr	Arg	Thr	His	Thr	Gly	Glu	Lys	Pro	Phe	Ser	Cys	Arg	Trp	Pro	Ser
385					390					395					400
Cys	Gln	Lys	Lys	Phe	Ala	Arg	Ser	Asp	Glu	Leu	Val	Arg	His	His	Asn
			405						410					415	
Met	His	Gln	Arg	Asn	Met	Thr	Lys	Leu	Gln	Leu	Ala	Leu			

420

425

<210> 409
 <211> 495
 <212> PRT
 <213> Homo sapiens

<400> 409

Met	Ala	Ala	Pro	Gly	Ala	Arg	Arg	Ser	Leu	Leu	Leu	Leu	Leu	Ala
1				5				10					15	
Gly	Leu	Ala	His	Gly	Ala	Ser	Ala	Leu	Phe	Glu	Asp	Leu	Met	Ser
			20					25				30		
Asp	Val	Arg	Asp	Leu	Asn	Ala	Leu	Leu	Pro	Ala	Val	Pro	Ser	Gly
			35				40					45		
Gly	Gly	Gly	Gly	Cys	Ala	Leu	Pro	Val	Ser	Gly	Ala	Ala	Gln	Trp
			50			55					60			
Pro	Val	Leu	Asp	Phe	Ala	Pro	Pro	Gly	Ala	Ser	Ala	Tyr	Gly	Ser
65					70				75					80
Gly	Gly	Pro	Ala	Pro	Pro	Pro	Ala	Pro	Pro	Pro	Pro	Pro	Pro	His
				85				90					95	
Ser	Phe	Ile	Lys	Gln	Glu	Pro	Ser	Trp	Gly	Gly	Ala	Glu	Pro	His
			100					105				110		
Glu	Gln	Cys	Leu	Ser	Ala	Phe	Thr	Val	His	Phe	Ser	Gly	Gln	Phe
		115					120					125		
Gly	Thr	Ala	Gly	Ala	Cys	Arg	Tyr	Gly	Pro	Phe	Gly	Pro	Pro	Pro
	130					135					140			
Ser	Gln	Ala	Ser	Ser	Gly	Gln	Ala	Arg	Met	Phe	Pro	Asn	Ala	Tyr
145					150					155				160
Leu	Pro	Ser	Cys	Leu	Glu	Ser	Gln	Pro	Ala	Ile	Arg	Asn	Gln	Gly
			165					170					175	
Ser	Thr	Val	Thr	Phe	Asp	Gly	Thr	Pro	Ser	Tyr	Gly	His	Thr	Pro
			180					185					190	
His	His	Ala	Ala	Gln	Phe	Pro	Asn	His	Ser	Phe	Lys	His	Glu	Asp
		195					200					205		
Met	Gly	Gln	Gln	Gly	Ser	Leu	Gly	Glu	Gln	Gln	Tyr	Ser	Val	Pro
	210					215					220			
Pro	Val	Tyr	Gly	Cys	His	Thr	Pro	Thr	Asp	Ser	Cys	Thr	Gly	Ser
225					230					235				240
Ala	Leu	Leu	Leu	Arg	Thr	Pro	Tyr	Ser	Ser	Asp	Asn	Leu	Tyr	Gln
				245					250					255
Thr	Ser	Gln	Leu	Glu	Cys	Met	Thr	Trp	Asn	Gln	Met	Asn	Leu	Gly
			260					265					270	
Thr	Leu	Lys	Gly	His	Ser	Thr	Gly	Tyr	Glu	Ser	Asp	Asn	His	Thr
		275					280					285		
Pro	Ile	Leu	Cys	Gly	Ala	Gln	Tyr	Arg	Ile	His	Thr	His	Gly	Val
	290					295					300			
Arg	Gly	Ile	Gln	Asp	Val	Arg	Arg	Val	Pro	Gly	Val	Ala	Pro	Thr
305					310					315				320
Val	Arg	Ser	Ala	Ser	Glu	Thr	Ser	Glu	Lys	Arg	Pro	Phe	Met	Cys
				325					330					335
Tyr	Pro	Gly	Cys	Asn	Lys	Arg	Tyr	Phe	Lys	Leu	Ser	His	Leu	Gln
			340					345					350	
His	Ser	Arg	Lys	His	Thr	Gly	Glu	Lys	Pro	Tyr	Gln	Cys	Asp	Phe

	355						360						365					
Asp	Cys	Glu	Arg	Arg	Phe	Phe	Arg	Ser	Asp	Gln	Leu	Lys	Arg	His	Gln			
	370					375					380							
Arg	Arg	His	Thr	Gly	Val	Lys	Pro	Phe	Gln	Cys	Lys	Thr	Cys	Gln	Arg			
385					390					395					400			
Lys	Phe	Ser	Arg	Ser	Asp	His	Leu	Lys	Thr	His	Thr	Arg	Thr	His	Thr			
				405					410					415				
Gly	Glu	Lys	Pro	Phe	Ser	Cys	Arg	Trp	Pro	Ser	Cys	Gln	Lys	Lys	Phe			
			420				425					430						
Ala	Arg	Ser	Asp	Glu	Leu	Val	Arg	His	His	Asn	Met	His	Gln	Arg	Asn			
		435				440					445							
Met	Thr	Lys	Leu	Gln	Leu	Ala	Leu	Leu	Asn	Asn	Met	Leu	Ile	Pro	Ile			
	450				455						460							
Ala	Val	Gly	Gly	Ala	Leu	Ala	Gly	Leu	Val	Leu	Ile	Val	Leu	Ile	Ala			
465					470					475					480			
Tyr	Leu	Ile	Gly	Arg	Lys	Arg	Ser	His	Ala	Gly	Tyr	Gln	Thr	Ile				
				485				490						495				

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<210> 410
<211> 504
<212> PRT
<213> Homo sapiens
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<400> 410															
Met 1	Gln	Ile	Phe	Val 5	Lys	Thr	Leu	Thr	Gly 10	Lys	Thr	Ile	Thr	Leu 15	Glu
Val	Glu	Pro	Ser 20	Asp	Thr	Ile	Glu	Asn 25	Val	Lys	Ala	Lys	Ile 30	Gln	Asp
Lys	Glu	Gly 35	Ile	Pro	Pro	Asp	Gln 40	Gln	Arg	Leu	Ile	Phe 45	Ala	Gly	Lys
Gln	Leu 50	Glu	Asp	Gly	Arg	Thr 55	Leu	Ser	Asp	Tyr	Asn 60	Ile	Gln	Lys	Glu
Ser 65	Thr	Leu	His	Leu	Val 70	Leu	Arg	Leu	Arg	Gly 75	Ala	Met	Gly	Ser	Asp 80
Val	Arg	Asp	Leu	Asn 85	Ala	Leu	Leu	Pro	Ala 90	Val	Pro	Ser	Leu 95	Gly	Gly
Gly	Gly	Gly	Cys 100	Ala	Leu	Pro	Val	Ser 105	Gly	Ala	Ala	Gln 110	Trp	Ala	Pro
Val	Leu	Asp 115	Phe	Ala	Pro	Pro	Gly 120	Ala	Ser	Ala	Tyr	Gly 125	Ser	Leu	Gly
Gly	Pro 130	Ala	Pro	Pro	Pro	Ala 135	Pro	Pro	Pro	Pro	Pro	Pro 140	Pro	Pro	His
Ser 145	Phe	Ile	Lys	Gln	Glu 150	Pro	Ser	Trp	Gly	Gly	Ala 155	Glu	Pro	His 160	Glu
Glu	Gln	Cys	Leu	Ser 165	Ala	Phe	Thr	Val	His 170	Phe	Ser	Gly	Gln 175	Phe	Thr
Gly	Thr	Ala	Gly 180	Ala	Cys	Arg	Tyr	Gly 185	Pro	Phe	Gly	Pro 190	Pro	Pro	Pro
Ser	Gln 195	Ala	Ser	Ser	Gly	Gln	Ala 200	Arg	Met	Phe	Pro	Asn 205	Ala	Pro	Tyr
Leu	Pro 210	Ser	Cys	Leu	Glu	Ser 215	Gln	Pro	Ala	Ile	Arg 220	Asn	Gln	Gly	Tyr
Ser	Thr	Val	Thr	Phe	Asp	Gly	Thr	Pro	Ser	Tyr	Gly	His	Thr	Pro	Ser

225					230				235				240			
His	His	Ala	Ala	Gln	Phe	Pro	Asn	His	Ser	Phe	Lys	His	Glu	Asp	Pro	
				245					250					255		
Met	Gly	Gln	Gln	Gly	Ser	Leu	Gly	Glu	Gln	Gln	Tyr	Ser	Val	Pro	Pro	
				260					265					270		
Pro	Val	Tyr	Gly	Cys	His	Thr	Pro	Thr	Asp	Ser	Cys	Thr	Gly	Ser	Gln	
				275					280					285		
Ala	Leu	Leu	Leu	Arg	Thr	Pro	Tyr	Ser	Ser	Asp	Asn	Leu	Tyr	Gln	Met	
				290					295					300		
Thr	Ser	Gln	Leu	Glu	Cys	Met	Thr	Trp	Asn	Gln	Met	Asn	Leu	Gly	Ala	
305					310					315					320	
Thr	Leu	Lys	Gly	His	Ser	Thr	Gly	Tyr	Glu	Ser	Asp	Asn	His	Thr	Thr	
				325					330					335		
Pro	Ile	Leu	Cys	Gly	Ala	Gln	Tyr	Arg	Ile	His	Thr	His	Gly	Val	Phe	
				340					345					350		
Arg	Gly	Ile	Gln	Asp	Val	Arg	Arg	Val	Pro	Gly	Val	Ala	Pro	Thr	Leu	
				355					360					365		
Val	Arg	Ser	Ala	Ser	Glu	Thr	Ser	Glu	Lys	Arg	Pro	Phe	Met	Cys	Ala	
				370					375					380		
Tyr	Pro	Gly	Cys	Asn	Lys	Arg	Tyr	Phe	Lys	Leu	Ser	His	Leu	Gln	Met	
385					390					395					400	
His	Ser	Arg	Lys	His	Thr	Gly	Glu	Lys	Pro	Tyr	Gln	Cys	Asp	Phe	Lys	
				405					410					415		
Asp	Cys	Glu	Arg	Arg	Phe	Phe	Arg	Ser	Asp	Gln	Leu	Lys	Arg	His	Gln	
				420					425					430		
Arg	Arg	His	Thr	Gly	Val	Lys	Pro	Phe	Gln	Cys	Lys	Thr	Cys	Gln	Arg	
				435					440					445		
Lys	Phe	Ser	Arg	Ser	Asp	His	Leu	Lys	Thr	His	Thr	Arg	Thr	His	Thr	
				450					455					460		
Gly	Glu	Lys	Pro	Phe	Ser	Cys	Arg	Trp	Pro	Ser	Cys	Gln	Lys	Lys	Phe	
465					470					475					480	
Ala	Arg	Ser	Asp	Glu	Leu	Val	Arg	His	His	Asn	Met	His	Gln	Arg	Asn	
				485					490					495		
Met	Thr	Lys	Leu	Gln	Leu	Ala	Leu									
				500												

```
<210> 411
<211> 10
<212> PRT
<213> Homo sapiens
```

```
<400> 411
Val Leu Asp Phe Ala Pro Pro Gly Ala Ser
  1                      5                      10
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```
<210> 412
<211> 15
<212> PRT
<213> Homo sapiens
```

<400> 412
Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala
1 5 10 15

<210> 413
<211> 15
<212> PRT
<213> Homo sapiens

<400> 413
Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr Gly Ser Leu
1 5 10 15